

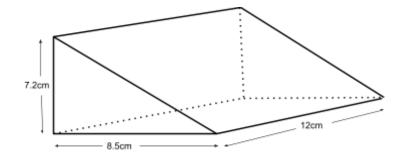
QT Quick Test 3 - Higher Calculator

1.(a) Find the highest common factor (HCF) of 90 and 210.

(b) Find the lowest common multiple (LCM) of 90 and 210.

2. There are only blue, black and green counters in a bag. There are 7 times as many blue counters as black counters. There are half as many green counters as black counters. Write the ratio of blue counters to black counters to green counters.





3. The diagram shows a right angled triangular prism. Calculate the volume of the prism.

4. Nisar invests £3000 for 4 years in a savings account. He gets 2.5% per annum compound interest in the first year, then x% for the next three years. Nisar has £3215.46 at the end of 4 years. Work out the value of x.

5. Carrie runs 163.5m in 32.7 seconds. Without using a calculator, work out her average speed.

6. Factorise $x^2 + 6x - 7$



7. Solve 7y + 15 = 4y - 6

8. It takes $5\frac{2}{3}$ hours to paint a room, and 3 and a half hours for the paint to dry. How long does it take altogether?

9. Work out an estimate for the value of $\frac{712 \times 6.14}{0.186}$

10. Solve the simultaneous equations 2x + 5y = 16 and 5x - 2y = 11